## WHAT IS CLAIMED IS:

- An anti-reflective structure comprising many micro
  holes each having an opening at a first surface and a bottom
   facing a second surface opposite to the first surface, each
  hole extending from the opening to the bottom.
- The anti-reflective structure according to claim 1, wherein the ratio of the openings to the first surface is set
   to 70% to 85% per unit area.
  - 3. The anti-reflective structure according to claim 1, wherein the reflectance is set to 1% or less.
- 15 4. The anti-reflective structure according to claim 1, wherein the bottom of each hole has a quadratic surface.
  - 5. The anti-reflective structure according to claim 1, wherein the opening of each hole has a polygonal shape.

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- 6. The anti-reflective structure according to claim 1, wherein the openings are disposed in a staggered arrangement in the first surface.
- 7. An anti-reflective film comprising an antireflective structure according to claim 1 which is formed on
  at least one of the front face and the rear face of the film.

8. A light guide comprising:

an anti-reflective structure having many micro holes
each having an opening at a first surface and a bottom facing
a second surface opposite to the first surface, each hole

5 extending from the opening to the bottom; and

a reflective structure having many micro grooves formed in the second surface.

- An illuminating device comprising a light guide
   according to claim 8, and a light source for irradiating the light guide.
- 10. A liquid crystal display device comprising an illuminating device according to claim 9, and a liquid 15 crystal display unit.
- 11. A mold for forming an anti-reflective film comprising an anti-reflective structure having many micro holes each having an opening at a first surface and a bottom facing a second surface opposite to the first surface, each hole extending from the opening to the bottom, the mold comprising a first inner surface for forming the first surface, a second inner surface for forming the second surface, and many micro protrusions protruding from the first inner surface to the second inner surface for patterning the outlines of the holes.
  - 12. The mold for forming an anti-reflective film

according to claim 11, wherein the protrusions are disposed in a staggered arrangement.